

**ABSTRACT**

The invention proposes a submarine fiber optic transmission network including a single cable (1) with at least two pairs of fibers and having at each end a branching unit (6, 8); each branching unit is connected to terminal equipments (18-21, 22-25) by two cable sections (10, 12, 14, 16) each having at least two pairs of fibers. Each branching unit switches the fiber pairs of the single cable to two fiber pairs of two cable sections connected to it.

The invention simplifies the structure of the network but preserves a ring configuration enabling traffic recovery using the synchronous digital hierarchy mechanisms.

**Figure to be published: figure 1**